

What is claimed is:

1. A system for providing user access to a computer-based system conceived and designed to interface with said system, said system comprising:
  - a BARB Badge to interface with a user's body, responsive to a disruption in said interface and including a transceiver to communicate with an external source;
  - a BARB Base to detect a presence of said BARB Badge in a vicinity of said BARB Base and relay secure communications between said BARB Badge and said computer-based system; and
  - an administrator subsystem to regulate interfacing operations of said BARB Badge and said computer-based system.
2. The system of claim 1, wherein said BARB badge provides user authentication and identification information to said computer-based system.
3. The system of claim 1, wherein said secure communications are relayed via at least one of an infrared secure communications link and a radio frequency secure communications link.
4. The system of claim 1 further comprising:
  - a timer subsystem in secure communication with said user authentication and identification subsystem to deactivate said BARB Badge after a predetermined time period.
5. The system of claim 1, further comprising:
  - a management subsystem in secure communication with said user authentication and identification subsystem to regulate operations of said user's body interface.
6. The system of claim 1, said BARB Badge further comprising:
  - a human-interface subsystem to interface with a user's body wherein said human-interface subsystem is responsive to disruptions in said interface with said user's body to notify said computer-based system of said disruptions.

7. The system of claim 6, wherein said human-interface subsystem includes a capacitive sensor to detect said disruptions in said interface with said user-body in the form of capacitive changes.

8. The system of claim 1, wherein said BARB Base detects said BARB Badge by receiving a predetermined presence signal transmitted by said BARB Badge.

9. The system of claim 8, wherein said BARB Badge transmits said presence signal in response to the receipt of a predetermined signal transmitted from said sensor subsystem.

10. The system of claim 1, wherein said BARB Base authenticates and identifies said particular unique BARB Badge based on a unique authentication and identification signature transmitted by said particular unique BARB Badge.

11. The system of claim 10, wherein said administrator subsystem assigns a unique authentication and identification signature to said BARB Badge.

12. The system of claim 1, said BARB Badge further comprising:  
a memory conceived and designed to store data received in said secure communications.

13. The system of claim 1, wherein said administrator subsystem queries said BARB Badge about said stored data.

14. The system of claim 13, wherein said query includes coding data stored in a memory.

15. The system of claim 1, wherein said administrator subsystem polls said BARB Badge to determine the location of said BARB Badge.

16. The system of claim 1 further comprising:

a database subsystem in secure communication with said administrator subsystem for storage and retrieval of data.

17. The system of claim 1, wherein said disruptions include substantial removal of said BARB Badge from said user's body.

18. The system of claim 1, wherein said administrator subsystem administers a plurality of said BARB Badges, wherein said administering includes displaying a status of a BARB Badge, adding of a new BARB Badge, revoking predetermined privileges of a BARB Badge and removing a BARB Badge from service.

19. The system of claim 1, wherein said remote source includes a biometric server.

20. The system of claim 8, wherein said predetermined signal is a radio frequency signal and wherein said BARB Base is conceived and designed to receive a secondary infrared signal transmitted by said BARB Badge from within a predetermined range of said BARB Base prior to relaying said secure communications between said BARB Badge and said computer-based system.

21. A BARB Badge for providing user access to a computer-based system conceived and designed to interface with said subsystem, said subsystem comprising:

a communication subsystem conceived and designed to securely communicate with the computer-based system wherein said secure communication includes receiving activation data from the computer-based system and transmitting user authentication and identification data to the computer-based system;

a memory storing said communicated data;

a human-interface subsystem conceived and designed to interface with a human body wherein said human-interface subsystem is responsive to disruptions in said interface with a user's body and is conceived and designed to notify the computer-based system via said secure communication subsystem of said disruptions; and

a feedback subsystem to provide a user with predetermined feedback on operations of said user authentication and identification subsystem.

22. The system of claim 21, wherein said secure communications are relayed via at least one of an infrared secure communication link and a radio frequency secure communication link.

23. The system of claim 21, further comprising:

a timer subsystem in secure communication with said user authentication and identification subsystem and conceived and designed to deactivate said BARB Badge after a predetermined time period.

24. The system of claim 21, further comprising:

a management subsystem in secure communication with said user authentication and identification subsystem and conceived and designed to regulate operations of said communication, human-interface and feedback subsystems and said memory.

25. The system of claim 21, wherein said human interface subsystem includes a capacitive sensor conceived and designed to detect said disruptions in said user's body.

26. The system of claim 21, wherein said feedback subsystem communicates with a remote source and transmits a notification packet to said user containing said predetermined feedback.

27. The system of claim 21 further comprising:

a portable power-source to provide said user authentication and identification subsystem with operational power.

28. The system of claim 21, wherein said feedback on operations of said user authentication and identification subsystem includes at least one of flashing light patterns and emitted sounds.

29. The system of claim 28, wherein said light emitting device is a light emitting diode.

30. The system of claim 28, wherein said sound emitting device is a beeper.

31. A BARB Base conceived and designed to relay secure communications between a computer-based system conceived and designed to interface with a BARB Badge, said BARB Base comprising:

a communication subsystem conceived and designed to relay said secure communications between said computer-based system and said BARB Badge;

a sensor subsystem conceived and designed to detect a presence of a BARB Badge in a vicinity of said BARB Base and to establish relay secure communication between said BARB badge and said computer-based system;

a recognition subsystem conceived and designed to uniquely identify a particular unique BARB Badge from a plurality of unique BARB Badges detected by said sensor subsystem and to relay secure communications between said particular unique BARB badge and the computer-based system; and

a feedback subsystem to provide a user with feedback on operations of the user authentication and identification subsystem.

32. The system of claim 31, wherein said secure communications are relayed via at least one of an infrared secure communication link and a radio frequency secure communication link.

33. The system of claim 31, wherein said feedback on operations of the user authentication and identification subsystem includes at least one of flashing light and sounds.

34. The system of claim 33, wherein said light emitting device is a light emitting diode.

35. The system of claim 33, wherein said sound emitting device is a beeper.

36. The system of claim 31, wherein said sensor subsystem detects each said BARB Badge based on receiving a predetermined presence signal transmitted by said BARB Badge.

37. The system of claim 36, wherein said BARB Badge transmits said presence signal in response to the receipt of a predetermined signal transmitted from said sensor subsystem.

38. The system of claim 31, wherein said recognition subsystem authentication and identifies said particular unique BARB Badge based on a unique authentication and identification signature transmitted by said particular unique BARB Badge.

39. The system of claim 36, wherein said predetermined signal is a radio frequency signal and wherein said BARB Base is conceived and designed to receive a secondary signal transmitted by said BARB Badge from within a predetermined range of said BARB Base prior to relaying said secure communications between said BARB badge and said computer-based system.

40. The system of claim 38, wherein said feedback subsystem notifies an external source of a user entrance of a bounded location corresponding to said BARB Base.

41. An administrator subsystem conceived and designed to regulate interfacing operations of a computer-based system to interface with a BARB Badge, said administrator subsystem comprising:

an authentication subsystem to authenticate a user based on valid user-provided data, to activate a predetermined BARB Badge corresponding to said user, and to store user authentication and identification data on said activated BARB badge; and

a login subsystem in secure communication with the computer-based system to verify user authentication and identification data received from said BARB badge, wherein said login subsystem grants the BARB Badge access to the computer-based system in response to said verification.

42. The system of claim 41 further comprising:

a management subsystem to control operations of said authentication and said login subsystems.

43. The system of claim 42, wherein said management subsystem maintains authentication information.

44. The system of claim 41, said management subsystem further comprising:  
a user management subsystem to control maintenance of said user accounts.

45. The system of claim 41, said management subsystem further comprising:  
an administrator subsystem to administer a plurality of said BARB Badges, wherein said administering includes displaying a status of a BARB Badge, adding a new BARB Badge, revoking predetermined privileges of a BARB Badge and removing a BARB Badge from service.

46. The system of claim 41, said management subsystem further comprising:  
a biometric administration subsystem to obtain and store a user's biometric data, display said biometric data, and compare said biometric data with data supplied by said authentication subsystem.

47. The system of claim 41 further comprising:  
an authentication database subsystem receiving and storing valid user-provided data from said authentication subsystem.

48. The system of claim 41, wherein said login subsystem grants the BARB Badge access to said computer-based system in response to said verification and a valid status of said activated BARB Badge.

49. The system of claim 47, wherein said login subsystem verification of said user authentication and identification data received from said BARB badge includes a successful search of said authentication database subsystem for an entry corresponding to said received user authentication and identification data.

50. The system of claim 41, wherein valid user-provided data includes valid user-provided biometric data.

51. The system of claim 41, wherein said activation includes verification of a valid status of said BARB Badge.

52. The system of claim 41, wherein said activation includes assigning a preset time period for said status of said BARB Badge to remain valid.

53. The system of claim 48, wherein valid status of said activated BARB Badge includes a valid serial number.

54. The system of claim 48, wherein valid status of said activated BARB Badge includes an un-expired validity time period,

55. The system of claim 41, wherein said data from said BARB Badge is received via at least one of an infrared secure communication link and a radio frequency secure communication link.

56. The system of claim 41, wherein said login subsystem grants the BARB Badge access via at least one of an infrared secure communication link and a radio frequency secure communication link.

57. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for providing portable user access to a computer-based system, said method comprising:

communicating with the computer-based system wherein said communicating includes receiving activation data at a portable device from the computer-based system and transmitting user authentication and identification data to the computer-based system from the portable device;

storing said communicated data; and



detecting detachment of the portable device from the user and notifying the computer-based system of the detachment.

58. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for relaying secure communications between a computer-based system interfacing with a BARB Badge via a BARB Base, said method comprising:

detecting a presence of a BARB Badge in a vicinity of said BARB Base and establishing secure communication between the BARB Badge and the computer-based system;

identifying a particular unique BARB Badge from a plurality of unique BARB Badges detected by said detecting and establishing secure communication between said particular unique BARB Badge and the computer-based system; and

providing a user with feedback on operations of said user authentication and identification subsystem.

59. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for administrating interfacing operations of a computer-based system conceived and designed to interface with a BARB Badge, method comprising:

authenticating a user based on valid user-provided data;

activating a predetermined BARB Badge corresponding to said user;

storing user authentication and identification data on said activated BARB Badge;

verifying user authentication and identification data received from said BARB Badge; and

granting the BARB Badge access to the computer-based system based on said verifying.

60. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for providing portable user access to a computer-based system, said method comprising:

communicating via a BARB Badge with an external source;  
interfacing with a user's body via said BARB Badge said interfacing responsive to interfacing disruptions;  
detecting a presence of said BARB Badge in a vicinity of a BARB Base relaying secure communications between said BARB Badge and the computer-based system; and  
regulating interfacing operations of said user authentication and identification subsystem and said computer-based system based on predetermined administrative protocols.

61. A method for providing portable user access to a computer-based system, said method comprising:

communicating with the computer-based system wherein said communicating includes receiving activation data at a portable device from the computer-based system and transmitting user authentication and identification data to the computer-based system from the portable device;

storing said communicated data; and

detecting detachment of the portable device from the user and notifying the computer-based system of the detachment.

62. A method in accordance with claim 61, said communicating further comprising:

relaying said communicated data via at least an infrared communication link and a radio frequency communication link.

63. A method in accordance with claim 61, further comprising:

deactivating the portable user access after a predetermined time period.

64. A method for relaying secure communications between a computer-based system interfacing with a BARB Badge via a BARB Base, said method comprising:

detecting a presence of a BARB Badge in a vicinity of the BARB Base and establishing communication between the BARB Badge and the computer-based system;

uniquely identifying a particular unique BARB Badge from a plurality of unique BARB Badges detected by said detecting and establishing communication between said particular unique BARB badge and the computer-based system; and

providing a user with feedback on operations of said user authentication and identification subsystem.

65. A method in accordance with claim 64, wherein said secure communications are relayed via at least an infrared communication link and a radio frequency communication link.

66. A method in accordance with claim 64, said detecting further comprising:  
detecting each said BARB Badge by receiving a predetermined presence signal transmitted by said BARB Badge.

67. A method in accordance with claim 66, wherein said BARB Badge transmits said presence signal in response to the receipt of a predetermined signal transmitted by the BARB Base.

68. A method for providing portable user access to a computer-based system, said method comprising:

communicating via a BARB Badge with an external source;  
interfacing with a user's body via said BARB Badge said interfacing responsive to interfacing disruptions;

detecting a presence of said BARB Badge in a vicinity of a BARB Base relaying secure communications between said BARB Badge and said computer-based system; and

regulating interfacing operations of said user authentication and identification subsystem and said computer-based system based on predetermined administrative protocols.

69. A system for providing portable user access to a computer-based system, said system comprising:

means for communicating with the computer-based system wherein said means for communicating includes means for receiving activation data at a portable device from the

computer-based system and means for transmitting user authentication and identification data to the computer-based system from the portable device;

means for storing said communicated data; and

means for detecting detachment of the portable device from the user and means for notifying the computer-based system of the detachment.

70. A system for relaying secure communications between a computer-based system interfacing with a BARB Badge via a subsystem, said system comprising:

means for detecting a presence of a BARB Badge in a vicinity of said BARB Base and means for establishing secure communication between said BARB Badge and the computer-based system;

means for uniquely identifying a particular unique BARB Badge from a plurality of unique BARB Badges detected by said means for detecting and means for establishing secure communication between said particular unique BARB Badge and said computer-based system; and

means for providing a user with feedback on operations of said user authentication and identification subsystem.

71. A system for providing portable user access to a computer-based system, said system comprising:

means for communicating via a BARB Badge with an external source;

means for interfacing with a user's body via said BARB Badge, said means for interfacing responsive to interfacing disruptions;

means for detecting a presence of said BARB Badge in a vicinity of a BARB Base, said BARB Base including means for relaying secure communications between said BARB Badge and the computer-based system; and

means for regulating interfacing operations of said user authentication and identification subsystem and said computer-based system based on predetermined administrative protocols.

72. The system of claim 71, said means for communicating further comprising:

means for providing user authentication and identification information to the computer-based system.

73. The system of claim 71, wherein said means for relaying secure communications include infrared and radio frequency communication links.

74. The system of claim 71, further comprising:

means for deactivating said user authentication and identification subsystem after a predetermined time period.

75. The system of claim 71, further comprising:

means for regulating operations of said communicating, interfacing and said detecting.

76. The system of claim 71, interfacing further comprising:

means for human-interfacing with a user-body and means for notifying said computer-based system of said disruptions.

77. The system of claim 76, wherein said means for human-interfacing includes a capacitive sensor for detecting said disruptions with said user's body.

78. The system of claim 71, said means for detecting further comprising:

means for receiving a predetermined presence signal transmitted by said BARB Badge; and

means for detecting said BARB Badge based said received signal.

79. The system of claim 78, wherein said BARB Badge transmitting said presence signal in response to the receipt of a predetermined signal transmitted from said sensor subsystem.

80. The system of claim 71, said means for detecting further comprising:

means for identifying said particular unique BARB Badge based on a unique authentication and identification signature transmitted by said particular unique BARB Badge.

81. The system of claim 80, said means for regulating further comprising:  
means for assigning a unique authentication and identification signature to said BARB Badge.

82. The system of claim 71, said BARB Badge further comprising:  
a computer-readable memory including means for storing data received in said secure communications with said BARB Base and means for retrieving said data.

83. The system of claim 71, said means for regulating further comprising:  
means for querying said BARB Badge for said stored data.

84. The system of claim 83, wherein said means for querying includes at least one of a means for reading of said stored data from said memory and means for storing of new data in said memory.

85. The system of claim 71, said means for regulating further comprising:  
means for polling said BARB Badge as to a location of said BARB Badge.

86. The system of claim 71, said means for regulating further comprising:  
means for communicating with a database for storage and retrieval of data.

87. The system of claim 71, wherein said disruptions are caused by substantial removal of said BARB Badge from said user's body.

88. The system of claim 71, said means for regulating further comprising:  
means for controlling a plurality of said BARB Badges, wherein said means for controlling include means for displaying of a status of a BARB Badge, means for adding of

a new BARB Badge, means for revoking of predetermined privileges of a BARB Badge and means for removing a BARB Badge from service.

89. The system of claim 71, wherein said remote source includes a biometric database.